CLAIMS

What is claimed is:

I	1.	A method of electrically connecting a semiconductor die to a package substrate,		
2	compr	comprising:		
3		(a)	applying an electrically non-conductive material covering at least a portion of said	
4		die and extending onto said substrate to a plurality of contact pads formed on said		
5		substrate; and		
6		(b)	applying an electrically conductive material over said non-conductive material and	
7		extending from an electrical point of contact of said die to at least one contact pad on said		
8		substra	ate.	
1	2.	A met	hod as claimed in claim 1, wherein the conductive material is separated into a	
2	plurality of conductive patches by laser trimming away portions of the conductive material.			
1	3.	A met	hod as claimed in claim 1, wherein a hole is trimmed into the non-conductive	
2	materi	material over and down to the bond pads, exposing at least a portion of each bond pad to be		
3	connected.			
1	4.	A met	hod as claimed in claim 1, wherein an electrically conductive bump is formed on	
2	each said die bond pad, said bump protruding through said non-conductive material and at least			
3	partial	partially through said conductive material.		

73162.04/1962.01800 - 16 -

1 A method as claimed in claim 1, wherein the insulating layer comprises a non-conductive 5. 2 epoxy. 1 6. A method as claimed in claim 1, wherein the insulating layer comprises a non-conductive 2 polyimide. A method as claimed in claim 1, wherein the conductive layer comprises conductive ink. 1 7. A method as claimed in claim 1, wherein the conductive layer comprises a metal ion 1 8. 2 coating. 1 9. A method as claimed in claim 1, wherein (a) includes spinning the non-conductive material 2 onto the die and package substrate. 1 10. A method as claimed in claim 1, wherein (a) includes spraying the non-conductive material 2 onto the die and package substrate. 1 A method as claimed in claim 1, wherein (b) includes spinning the non-conductive material 11. 2 onto the die and package substrate. A method as claimed in claim 1, wherein (b) includes spraying the non-conductive material 1 12. 2 onto the die and package substrate.

- 1 13. A semiconductor device formed by the process of:
- 2 (a) applying an electrically non-conductive material covering at least a portion of said
- die and extending onto said substrate to a plurality of contact pads formed on said
- 4 substrate; and
- 5 (b) applying an electrically conductive material over said non-conductive material and
- 6 extending from an electrical point of contact of said die to at least one contact pad on said
- 7 substrate.
- 1 14. A device as claimed in claim 13, wherein the conductive material is separated into a
- 2 plurality of conductive patches by laser trimming away portions of the conductive material.
- 1 15. A device as claimed in claim 13, wherein a hole is trimmed into the non-conductive
- 2 material over and down to the bond pads, exposing at least a portion of each bond pad to be
- 3 connected.
- 1 16. A device as claimed in claim 13, wherein an electrically conductive bump is formed on
- 2 each said die bond pad, said bump protruding through said non-conductive material and at least
- 3 partially through said conductive material.
- 1 17. A device as claimed in claim 13, wherein the insulating layer comprises a non-conductive
- 2 epoxy.

73162.04/1962.01800 - 18 -

1 18. A device as claimed in claim 13, wherein the insulating layer comprises a non-conductive 2 polyimide. 1 19. A device as claimed in claim 13, wherein the conductive layer comprises conductive ink. 1 A device as claimed in claim 13, wherein the conductive layer comprises a metal ion 20. 2 coating. 1 21. A device as claimed in claim 13, wherein (a) includes spinning the non-conductive material 2 onto the die and package substrate. 1 22. A device as claimed in claim 13, wherein (a) includes spraying the non-conductive material 2 onto the die and package substrate. 1 A device as claimed in claim 13, wherein (b) includes spinning the non-conductive material 23. 2 onto the die and package substrate. 1 A device as claimed in claim 13, wherein (b) includes spraying the non-conductive material 24. 2 onto the die and package substrate.

73162.04/1962.01800 - 19 -